Government of
Saskatchewan

Interim Annual Report
2000

Saskatchewan Health
Vital Statistics

1942 Hamilton Street
Regina, Saskatchewan
S4P 3V7

101-04148/

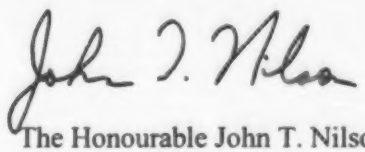
Letters of Transmittal

To the Honourable Dr. L.M. Haverstock
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

We respectively submit, for your consideration, the Interim Report on Saskatchewan Vital Statistics for the calendar year 2000.

Respectfully submitted,



The Honourable John T. Nilson, Q.C.
Minister of Health

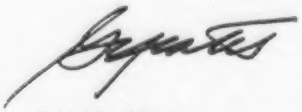
To the Honourable John T. Nilson, Q.C.
Minister of Health

Your Honour:

On behalf of department staff, I am pleased to present the Interim Report on Saskatchewan Vital Statistics for the calendar year 2000.

This interim report presents a concise record of those vital events that occurred in Saskatchewan during the calendar year 2000.

Respectfully submitted,



Glenda Yeates
Deputy Minister

Table of Contents

	Page
Terms and Definitions	1
Introduction	3
Population	5
Births	6
Stillbirths	7
Deaths	7
Accidents and Violence	12
Natural Increase in Population	12
Marriages	13
Divorces	14
Life Expectancy	14
Adoptions	15
Legal Changes of Name	16

List of Tables

		Page
Table 1.	Summary of Vital Statistics, Saskatchewan, 1995-2000	4
Table 2.	The Historical Trend in Saskatchewan Population	5
Table 3.	Distribution of Total Population, Saskatchewan, 2000	6
Table 4.	Percentage Distribution by Sex, Saskatchewan, for Selected Years	6
Table 5.	Live Birth Rates per 1,000 Population, Canada and the Provinces, 1998	7
Table 6.	Crude Death Rates per 1,000 Population, Canada and the Provinces, 1997	8
Table 7.	Age Specific Death Rates per 1,000 Population, Saskatchewan, 1985-2000	8
Table 8.	Deaths by Leading Causes, with Percent Distribution and Rates per 100,000 Population, Saskatchewan, 2000	9
Table 9.	Natural Increase and Actual Increase, Saskatchewan, 1987 – 2000	13
Table 10.	Marriage Rage per 1,000 Population, Canada and the Provinces, 1997	13
Table 11.	Life Expectancy, Saskatchewan, 1941, 1961, 1981, and 1996	15

Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1982 to 1985, 1987 to 1990, 1992 to 1995, 1997 to 2000 and final census figures for 1981, 1986, 1991, and 1996.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Foetal deaths of 500 grams or more.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Foetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Causes of Death

All Causes	: per 100,000 population
Infant	: per 1,000 live births
Neonatal	: per 1,000 live births
Perinatal	: per 1,000 live births and stillbirths

Notes

1. Causes of death are classified according to the 10th (1994) Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 2000.

Introduction

The Vital Statistics Interim Report represents a concise record of those vital events, which occurred in Saskatchewan during the calendar year 2000. The Interim Report has been prepared in response to the requirements contained in *The Tabling of Documents Act (1991)*.

The Vital Statistics Interim Report – 2000 records vital events by place of occurrence for 2000 (vital events which occurred in Saskatchewan in 2000). It includes for example, births to Saskatchewan residents who were in the province at the time of giving birth and residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth. The data in this report are based on original registration forms and do not include amendments. The vital events recorded in this report for years previous to 2000 are by place of residence, unless otherwise indicated.

Table 1. Summary of Vital Statistics, Saskatchewan 1995 – 2000

Item	1995	1996	1997	1998	1999*	2000*
Population	1,016	1,023	1,024	1,024	1,028	1,024
Live Births	13,499	13,300	12,860	12,710	12,481	12,040
Rate++	13.2	13.0	12.6	12.4	12.1	11.8
Deaths	8,495	8,765	8,637	8,838	8,947	8,898
Rate++	8.4	8.6	8.4	8.6	8.7	8.7
Natural Increase	5,004	4,535	4,223	3,872	3,534	3,142
Rate++	4.9	4.4	4.1	3.8	3.4	3.1
Infant Deaths	123	112	114	90	76	71
Rate**	9.1	8.4	8.9	7.1	6.1	5.9
Neonatal Deaths	74	76	77	83	66	58
Rate**	5.5	5.7	6.0	6.5	5.3	4.8
Perinatal Deaths@						
500 grams or more (20+ weeks gestation)	142	119	127	121	115	104
Rate+++	10.5	8.9	9.8	9.5	9.2	8.6
500 grams or more (28+ weeks gestation)	117	96	112	107	91	91
Rate+++	8.6	7.2	8.7	8.4	7.3	7.5
Stillbirths@						
500 grams or more (20+ weeks gestation)	82	59	60	62	72	72
Rate**	6.1	4.5	4.7	4.9	5.8	6.0
500 grams or more (28+ weeks gestation)	57	36	45	48	48	59
Rate**	4.2	2.7	3.5	3.8	3.8	4.9
Marriages	5,799	5,671	5,707	5,671	5,900	5,690
Rate++	5.7	5.5	5.6	5.5	5.7	5.6
Divorces and Annulments	2,328	2,211	2,195	2,223	2,230	2,222

* Preliminary figures – See Introduction, page 3
** Rate per 1,000 live births
++ Rate per 1,000 population
+++ Rate per 1,000 total births (live births and stillbirths)
@ See Terms and Definitions, page 1

A. Population

1. The Historical Trend

The estimated population of 1,023,636 for 2000 is a slight decrease of 0.40 per cent over the 1999 estimated population of 1,027,780.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1991	991
2000	1,024*

* Statistics Canada Postcensal Estimate.
All other figures are final census.

2. The Percentage Distribution of the Total Population

During the past 30 years, the proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan, however, the proportion of person 65 years of age and over is greater than in Canada as a whole (14.5 percent and 12.5 percent respectively).

Table 3. Distribution of Total Population, Saskatchewan, 2000 (000's)

	Canada		Saskatchewan	
Age Group	Number	Percent	Number	Percent
Total	30,751.0	100.0	1,023.6	100.0
0-19	7,943.0	25.9	299.6	29.3
20-44	11,781.0	38.3	362.7	35.4
45-64	7,177.0	23.3	213.2	20.8
65+	3,850.0	12.5	148.1	14.5

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1081	50.2	49.8	101
1991	49.6	50.4	99
2000	49.7	50.3	99

B. Births

1. Live Births

During the year 2000 a total of 12,040 live births occurred in the Province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the Province of Saskatchewan at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 12,040 live births represents a birth rate of 11.8 live births per 1,000 population, which is slightly lower than last year's birth rate.

The 1998 birth rates for Saskatchewan, for Canada, and for the Provinces are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces, 1998

Province	Rate
Canada	11.1
Newfoundland	9.3
Prince Edward Island	10.8
Nova Scotia	10.2
New Brunswick	10.4
Quebec	10.3
Ontario	11.4
Manitoba	12.6
Saskatchewan	12.5
Alberta	12.6
British Columbia	10.6
Yukon	12.9
Northwest Territories	16.2
Nunavut	24.1

2. Stillbirths

During the year 2000 a total of 72 stillbirths occurred in the province. The definition of occurrence is given in the introduction. The 72 stillbirths occurred after 20 or more weeks gestation; 59 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent rates of 6.0 and 4.9 stillbirths per 1,000 live births, respectively.

C. Deaths

During the year 2000 a total of 8,898 deaths occurred within the Province of Saskatchewan. This represents a crude death rate of 8.7 deaths per 1,000 population, which is the same as the crude death rate experienced in 1999.

The 1997 crude death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces, 1997

Province	Rate
Canada	7.2
Newfoundland	7.8
Prince Edward Island	7.5
Nova Scotia	8.6
New Brunswick	7.9
Quebec	7.4
Ontario	7.1
Manitoba	8.4
Saskatchewan	8.4
Alberta	5.8
British Columbia	6.9
Yukon	3.8
Northwest Territories	3.8

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1985 – 2000

	All	Age Group					
Year	Ages	Under 5	5-14	15-24	25-44	45-64	65+
1985	7.9	2.7	0.3	1.0	1.2	7.0	47.0
1986	8.0	2.3	0.3	1.2	1.2	7.2	46.5
1987	7.7	2.2	0.4	1.1	1.1	6.6	44.8
1988	8.0	2.1	0.3	1.0	1.3	6.7	46.3
1989	7.9	2.0	0.2	0.8	1.2	6.2	45.4
1990	8.0	2.0	0.2	0.9	1.1	6.3	46.0
1991	8.1	1.8	0.2	1.0	1.2	6.0	45.9
1992	7.8	1.7	0.2	0.9	1.1	5.5	44.0
1993	8.1	1.9	0.2	0.9	1.1	5.8	44.8
1994	8.2	2.0	0.3	0.8	1.1	5.9	44.9
1995	8.4	2.2	0.3	0.8	1.2	5.8	45.5
1996	8.6	1.9	0.2	0.7	1.2	5.5	47.4
1997	8.4	2.0	0.3	0.7	1.2	5.3	46.9
1998*	8.6	1.6	0.1	0.8	1.0	5.2	48.4
1999*	8.7	1.5	0.2	0.6	1.1	5.2	49.2
2000*	8.7	1.5	0.2	0.8	1.2	4.9	49.0

* Preliminary figures.

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2000

		Deaths	Percent	Rate*
	All Causes of Death	8,898	100.0	869.3
1	Salmonella Infections	0	0.0	0.0
2	Shigellosis and Amebiasis	0	0.0	0.0
3	Certain Other Intestinal Infections	2	0.0	0.2
4	Respiratory Tuberculosis	7	0.1	0.6
5	Other Tuberculosis	1	0.0	0.1
6	Whooping Cough	0	0.0	0.0
7	Scarlet Fever and Erysipelas	0	0.0	0.0
8	Meningococcal Infection	0	0.0	0.0
9	Septicemia	44	0.5	4.3
10	Syphilis	0	0.0	0.0
11	Acute Poliomyelitis	0	0.0	0.0
12	Arthropod-borne Viral Encephalitis	0	0.0	0.0
13	Measles	0	0.0	0.0
14	Viral Hepatitis	4	0.0	0.4
15	Human Immunodeficiency Virus (HIV) Disease	10	0.1	1.0
16	Malaria	0	0.0	0.0
17	Other & Unspecified Infectious & Parasitic Diseases	18	0.2	1.8
18	Malignant Neoplasms (M N) of Lip, Oral Cavity & Pharynx	26	0.3	2.5
19	M N of Esophagus	34	0.4	3.3
20	M N of Stomach	63	0.7	6.2
21	M N of Colon, Rectum and Anus	234	2.6	22.9
22	M N of Liver and Intrahepatic Bile Ducts	44	0.5	4.3
23	M N of Pancreas	100	1.1	9.8
24	M N of Larynx	18	0.2	1.8
25	M N of Trachea, Bronchus and Lung	512	5.8	50.0
26	M Melanoma of Skin	20	0.2	2.0
27	M N of Breast	164	1.8	16.0
28	M N of Cervix Uteri	20	0.2	2.0
29	M N of Corpus Uteri & Uterus, part unspecified	21	0.2	2.1
30	M N of Ovary	57	0.6	5.6
31	M N of Prostrate	230	2.6	22.5
32	M N of Kidney & Renal Pelvis	56	0.6	5.5
33	M N of Bladder	47	0.5	4.6
34	M N of Meninges, Brain & Other Parts of Central Nervous System	56	0.6	5.5
35	Hodgkin's Disease	4	0.0	0.4
36	Non-Hodgkin's Lymphoma	92	1.0	9.0
37	Leukemia	91	1.0	8.9
38	Multiple Myeloma & Immunoproliferative Neoplasms	45	0.5	4.4
39	Other & Unspecified M N of Lymphoid, Hematopoietic & Related Tissue	0	0.0	0.0
40	All Other & Unspecified M N	299	3.4	29.2
41	In Situ Neoplasms, Benign Neoplasms & Neoplasms of Uncertain or Unknown Behaviour	61	0.7	6.0

		Deaths	Percent	Rate*
42	Anemias	16	0.2	1.6
43	Diabetes Mellitus	253	2.8	24.7
44	Malnutrition	3	0.0	0.3
45	Other Nutritional Deficiencies	2	0.0	0.2
46	Meningitis	4	0.0	0.4
47	Parkinson's Disease	89	1.0	8.7
48	Alzheimer's Disease	237	2.7	23.2
49	Acute Rheumatic Fever & Chronic Rheumatic Heart Disease	10	0.1	1.0
50	Hypertensive Heart Disease	32	0.4	3.1
51	Hypertensive Heart & Renal Disease	2	0.0	0.2
52	Acute Myocardial Infarction	778	8.7	76.0
53	Other Acute Ischemic Heart Diseases	12	0.1	1.2
54	Atherosclerotic Cardiovascular Diseases	132	1.5	12.9
55	All Other Forms of Chronic Ischemic Heart Disease	749	8.4	73.2
56	Acute & Subacute Endocarditis	2	0.0	0.2
57	Diseases of Pericardium & Acute Myocarditis	3	0.0	0.3
58	Heart Failure	341	3.8	33.3
59	All Other Forms of Heart Disease	309	3.5	30.2
60	Essential Hypertension & Hypertensive Renal Disease	38	0.4	3.7
61	Cerebrovascular Diseases	705	7.9	68.9
62	Atherosclerosis	59	0.7	5.8
63	Aortic Aneurysm & Dissection	96	1.1	9.4
64	Other Diseases of Arteries, Arterioles & Capillaries	40	0.4	3.9
65	Other Disorders of Circulatory System	13	0.1	1.3
66	Influenza	50	0.6	4.9
67	Pneumonia	200	2.2	19.5
68	Acute Bronchitis & Bronchiolitis	3	0.0	0.3
69	Unspecified Acute Lower Respiratory Infection	1	0.0	0.1
70	Bronchitis, Chronic & Unspecified	8	0.1	0.8
71	Emphysema	42	0.5	4.1
72	Asthma	0	0.0	0.0
73	Other Chronic Lower Respiratory Diseases	330	3.7	32.2
74	Pneumoconioses & Chemical Effects	2	0.0	0.2
75	Pneumonitis Due to Solids & Liquids	43	0.5	4.2
76	Other Diseases of Respiratory System	80	0.9	7.8
77	Peptic Ulcer	22	0.2	2.2
78	Diseases of Appendix	0	0.0	0.0
79	Hernia	9	0.1	0.9
80	Alcoholic Liver Disease	41	0.5	4.0
81	Other Chronic Liver Disease & Cirrhosis	33	0.4	3.2
82	Cholelithiasis & Other Disorders of Gallbladder	15	0.2	1.5
83	Acute & Rapidly Progressive Nephritic & Nephrotic Syndrome	0	0.0	0.0
84	Chronic Glomerulonephritis, Nephritis & Nephritis Not Specified as Acute or Chronic, Renal Sclerosis Unspecified	2	0.0	0.2
85	Renal Failure	165	1.9	16.1
86	Other Disorders of Kidney	1	0.0	0.1
87	Infections of Kidney	4	0.0	0.4
88	Hyperplasis of Prostrate	2	0.0	0.2

		Deaths	Percent	Rate*
89	Inflammatory Diseases of Female Pelvic Organs	1	0.0	0.1
90	Pregnancy with Abortive Outcome	0	0.0	0.0
91	Other Complications of Pregnancy, Childbirth & Puerperium	0	0.0	0.0
92	Certain Conditions Originating in the Perinatal Period	22	0.2	2.2
93	Congenital Malformations, Deformations & Chromosomal Abnormalities	27	0.3	2.6
94	Symptoms, Signs & Abnormal Clinical & Laboratory Findings, Not Elsewhere Classified	126	1.4	12.3
95	All Other Diseases (Residual)	781	8.8	76.3
96	Motor Vehicle Accidents	143	1.6	14.0
97	Other Land Transport Accidents	16	0.2	1.6
98	Water, Air & Space & Other Unspecified Transport Accidents	3	0.0	0.3
99	Falls	60	0.7	5.9
100	Accidental Discharge of Firearms	2	0.0	0.2
101	Accidental Drowning & Submersions	15	0.2	1.5
102	Accidental Exposure to Smoke, Fire & Flames	16	0.2	1.6
103	Accidental Poisoning & Exposure to Noxious Substances	38	0.4	3.7
104	Other & Unspecified Non-transport Accidents	137	1.5	13.4
105	Intentional Self-harm (Suicide) by Discharge of Firearms	39	0.4	3.8
106	Intentional Self-harm (Suicide) by Other & Unspecified Means	80	0.9	7.8
107	Assault (Homicide) by Discharge of Firearms	3	0.0	0.3
108	Assault (Homicide) by Other & Unspecified Means	17	0.2	1.7
109	Legal Intervention	0	0.0	0.0
110	Discharge of Firearms, Undetermined Intent	0	0.0	0.0
111	Other & Unspecified Events of Undetermined Intent	11	0.1	1.1
112	Operations of War	0	0.0	0.0
113	Complications of Medical & Surgical Care	3	0.0	0.3

* Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2000 a total of 444 deaths due to accidents occurred in the Province of Saskatchewan. This represents a rate of 43.4 deaths by accidents per 100,000 population in 2000 as compared to a rate 41.1 deaths by accident per 100,000 population in 1999.

The number of suicides, which occurred in Saskatchewan during 2000, was 119, a rate of 11.6 suicides per 100,000 population, which is slightly higher than the number that occurred in 1999.

There were 20 homicides in Saskatchewan in 2000, a significant increase from the 1999 number of 12 homicides.

D. Natural Increase in Population

In 2000 the natural increase was 3,142 and the estimated actual increase was –4,144 giving rates per 1,000 population of 3.1 and –4.0 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1987 – 2000*

Year	Population	Live Births	Deaths	Natural Increase Number	Natural Increase Rate per 1,000 Pop.	Est. Actual Increase Number	Est. Actual Increase Rate per 1,000 Pop.
1987	1,014,000	17,034	7,808	9,226	9.1	4,385	4.3
1988	1,011,200	16,763	8,100	8,663	8.6	-2,800	-2.8
1989	1,007,000	16,572	7,861	8,711	8.7	-4,200	-4.2
1990	1,000,300	16,090	8,044	8,046	8.0	-6,700	-6.7
1991	997,000	15,304	8,098	7,206	7.2	-3,300	-3.3
1992	993,700	15,004	7,793	7,211	7.3	-3,300	-3.3
1993	1,003,100	14,269	8,164	6,105	6.1	9,400	9.4
1994	1,016,200	14,038	8,308	5,730	5.6	13,100	12.9
1995	1,016,162	13,515	8,475	5,040	5.0	-38	-0.04
1996	1,022,537	12,974	7,713	5,261	5.1	6,375	6.2
1997	1,023,500	12,860	8,637	4,223	4.1	963	0.9
1998	1,024,387	12,777	8,838	3,939	3.8	887	0.9
1999*	1,027,780	12,481	8,947	3,534	3.4	3,393	3.3
2000*	1,023,636	12,040	8,898	3,142	3.1	-4,144	-4.0

* See footnotes in Table 1.

E. Marriages

During the year 2000 a total of 5,690 marriages occurred in Saskatchewan. This total represents a rate of 5.6 marriages per 1,000 population. Marriage rates for Canada, the Provinces, and Saskatchewan for 1997 are given below for comparison.

Table 10. Marriages Rate per 1,000 Population, Canada and the Provinces, 1997

Province	Rate
Canada	5.1
Newfoundland	5.8
Prince Edward Island	6.4
Nova Scotia	5.5
New Brunswick	5.4
Quebec	3.3
Ontario	5.7
Manitoba	5.5
Saskatchewan	5.6
Alberta	6.1
British Columbia	5.5
Yukon	5.2
Northwest Territories	3.1

F. Divorces

In 2000 a total of 2,222 divorces and annulments were registered under *The Vital Statistics Act, 1995* in Saskatchewan at the time of publication. This does not represent the total number of divorce petitions filed in 2000 since some petitions are not yet finalized.

F. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1996 census, the life expectancy at birth reached an all time peak for females, 81.30 years, and for males, 75.40 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 56 for males and at 65 for females. The decrease in life expectancy is greater for males than for females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1981, 1996

	Life Expectancy				Gain or Lose In Life Expectancy		
	1941	1961	1981	1996	1961 over 1941	1981 over 1961	1996 over 1981
			Males				
At Birth	65.43	70.27	72.43	75.40	4.84	2.16	2.97
20	51.28	53.49	54.35	56.60	2.21	0.86	2.25
40	33.32	34.99	35.92	37.90	1.67	0.93	1.98
60	16.82	18.10	19.09	20.40	1.28	0.99	1.31
80	5.76	6.31	7.16	7.60	0.55	0.85	0.44
			Females				
At Birth	68.19	75.93	79.61	81.30	7.74	3.68	1.69
20	53.08	58.35	60.85	62.40	5.27	2.50	1.55
40	34.96	39.09	41.64	43.00	4.13	2.55	1.36
60	18.26	21.09	23.65	24.80	2.83	2.56	1.15
80	6.38	7.29	8.94	9.90	0.91	1.65	0.96

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 were calculated for Saskatchewan by the Department of Health. The figures for 1981 and 1991 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982 and 1995-1997.

G. Adoptions

There were 226 adoptions registered in Saskatchewan during 2000, compared to 293 adoptions in 1999. The total of 226 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

H. Legal Changes of Name

During 2000 a total of 753 legal changes of name were registered in Saskatchewan. This represents the same number of changes of name registered in 1999. The total of 753 does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.